

19971209.ba v01_n823.bam.971209 v01_n824.bam.971209 v01_n825.bam.971209

>From ???@??? Wed Dec 10 03:23:23 1997
Message-Id: <199712091335.HAA17847@sco.theporch.com>
Date: Tue, 9 Dec 1997 07:35:20 CST
Subject: BOATANCHORS digest 1823

BOATANCHORS Digest 1823

Topics covered in this issue include:

- 1) Johnson Ranger 1 (maroon paint)
by stever@cybercomm.net (Stephan Rashkin)
- 2) SX-101 AVC, &c.
by Dick Dillman <ddillman@igc.apc.org>
- 3) Tube testers -
by Dexter Francis <cwest@xmission.com>
- 4) What is it?
by Eugene Rippen <soundval@foothill.net>
- 5) HRO-50 woes (fwd)
by "Roberta J. Barmore" <rbarmore@indy.net>
- 6) Re: HRO-50 woes (fwd)
by "Roberta J. Barmore" <rbarmore@indy.net>
- 7) Re: BOATANCHORS digest 1811
by Dexter Francis <cwest@xmission.com>
- 8) Don't call AES first...please!
by Dexter Francis <cwest@xmission.com>
- 9) Swan Help Needed
by ARONGV@aol.com
- 10) The Boatanchor List Deserves an Apology
by "Barry L. Ornitz" <ornitz@tricon.net>
- 11) Re: SCRUB-A-DUB-DUB
by "Arden Allen" <aallen@sirius.com>
- 12) Re: RAO Receiver Questions
by "Arden Allen" <aallen@sirius.com>
- 13) Europe with 211 in '29 Hartley
by W7FG <w7fgboat@w7fg.com>
- 14) National RCE
by don merz <71333.144@compuserve.com>
- 15) HRO-MX Info
by Gary Harmon <gharmon@txdirect.net>
- 16) Re: SX-28A Audio Output transformer needed
by Scott Robinson <spr@earthlink.net>
- 17) Most obscure BA, no foolin' !
by Ho4bart <Ho4bart@aol.com>
- 18) Re: SCHEMATICS Dentrion MLT 2500 Tuner
by Peter Demmer <ampruss@hits.net>
- 19) Re: RAO Receiver Questions

by John Ward <ke2st@frontiernet.net>
20) Re: RAO Receiver Questions
by Jeffrey Herman <jeffreyh@hawaii.edu>
21) Needed : RT 70
by "Ragnar Otterstad" <danmec@inet.uni-c.dk>
22) Re: Bill GM8APX, your Iraq set ??
by "Ragnar Otterstad" <danmec@inet.uni-c.dk>
23) RE: Another simple transmitter...
by Laird Tom N <LairdTomN@JDCORP.deere.com>

Date: Mon, 8 Dec 1997 19:13:45 -0500
From: stever@cybercomm.net (Stephan Rashkin)
To: boatanchors@theporch.com
Subject: Johnson Ranger 1 (maroon paint)
Message-ID: <199712090013.TAA14285@raven.cybercomm.net>

Seasons Greetings!

I'm not sure if Dupli-Color paint # 77-01582, code 3K2 has been mentioned for touch up on the maroon section of the Ranger 1, but it sure is a perfect match for me. It is an import touch-up and the description on the container is "Toyota Wineberry Pearl (M) Clearcoat 1993-1992. Found the stuff at Walmart in the auto section here in NJ..Stuff I got has applicator brush and is 1/2 fluid oz.

Feedback welcomed via my E-mail address.. stever@cybercomm.net

73,

Steve, WA2NHZ

Steve Rashkin, WA2NHZ
Howell, New Jersey 07731

E-mail: stever@cybercomm.net

Date: Mon, 8 Dec 1997 17:28:41 -0800 (PST)
From: Dick Dillman <ddillman@igc.apc.org>

To: boatanchors@theporch.com
Subject: SX-101 AVC, &c.
Message-ID: <2.2.16.19971208172740.4a2f00d8@pop.igc.org>

Well of course I've been playing tirelessly with the "new" SX-101 Mk. IIIA since I wrote of its arrival. And I have a couple of questions for those list members knowledgeable about this receiver.

First, the AVC. It works fine but, for my taste, it should have a longer delay (with the same short attack time). Has anyone made this change?

Second, the S meter. It was up off the peg with no antenna on 40m. A delicate twist of the S meter adjust pot on the rear panel cured the problem but now I see that the S meter zero setting varies with the position of the Selectivity control. Is that to be expected?

Are there any particularly good articles on the '101 I should try to scare up?

And finally, here's standard plea No. 23: Does anyone have a manual they're willing to share?

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Date: Mon, 08 Dec 1997 20:13:09 -0700
From: Dexter Francis <cwest@xmission.com>
To: boatanchors@theporch.com
Subject: Tube testers -
Message-ID: <348CB743.3FA3@xmission.com>

I realize that what I'm about to say may not apply in *all* cases, BUT it seems reasonable to me that a tube which has a set of curves published for it could be treated in the same way as a <gasp> transistor; that is, it could be curve traced. I know the glass audio crowd has at least one PC controlled tube tracer available to them. Objectively, a tube is simply a set of electrodes, with a particular geometry. We expect that given a specific level of voltage on the grid, plate and cathode, a fixed amount of current will flow. This is easy to measure. Most dynamic conductance testers simply vary the grid bias voltage (at 60) hz and measure the average AC current flow from the cathode to the anode. This should fall into the expected range - else why publish a

typical or minimum value of transconductance. Even emission testers measure the electron flow from cathode to plate, they just do it at one bias setting rather than applying a 60 hz signal to the grid. Clearly applying a 60 hz sine wave to grid does not mimic an RF wave form, BUT many testers have the ability to apply an external signal to the grid. Why not hook up your trusty HP 606B to the grid to check those tubes for RF? (with suitable DC blocking caps, of course)

I know we're all enthralled by the magic, but there is still physics in the fireplace, so to speak.

-df

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Visit our Web site at <http://www.xmission.com/~cwest/>
e-mail to: tubes@usa.net -or- cwest@xmission.com
P.O. Box 22443, Salt Lake City, Utah 84122

Date: Mon, 08 Dec 1997 20:15:14 -0800
From: Eugene Rippen <soundval@foothill.net>
To: boatanchors@theporch.com
Subject: What is it?
Message-ID: <348CC5D2.6DA8@foothill.net>

I just got:

A small black box.
"GALAXY 300~FILTER"
Has "In" and "Out" above front sliding switch.
3 RCA type jacks on rear marked "Out", "12V" and
"In".

What is it? An amplifying CW filter??????? Huh?

Gene

Date: Mon, 8 Dec 1997 22:57:47 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: BA <boatanchors@sco.ThePorch.com>
Subject: HRO-50 woes (fwd)
Message-ID: <Pine.SUN.3.96.971208225534.8420B-100000@indy2>

Hi!

Got this e-mail from a co-worker. Looks like his new HRO-60 needs contacts--anyone got a parts unit or some thoughts? Reply to Jan (who is a him), or to me & I'll forward.

----- Forwarded message -----

From: Jan Frisinger <h_p@iquest.net>
Subject: Pig in a poke

Fired up the HRO...a real brick..no stations...just a little gain noise. got to looking, the finger stock that connects to the tuning units is missing (broken off) on two clips of one section. So....gotta either find one of those 5 finger thingies or some stuff that will replace the contactors...

HELLP!

Jan

Date: Mon, 8 Dec 1997 23:05:20 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: HRO-50 woes (fwd)
Message-ID: <Pine.SUN.3.96.971208230425.8420D-100000@indy2>

Ooops! Make that his HRO-50 (fifty). "The hand is quicker than the mind, yesitizzindeeeed..." Arrrgh.

73,
--Bobbi

Date: Mon, 08 Dec 1997 20:51:41 -0700
From: Dexter Francis <cwest@xmission.com>
To: boatanchors@theporch.com
Subject: Re: BOATANCHORS digest 1811
Message-ID: <348CC048.3F96@xmission.com>

Greetings -

You mentioned maybe looking on my website for your gear.
Am I expecting something? ;-)

How can I help?

-df

Need to Buy or Sell Tubes, Parts or BA Gear?
Visit our Web site at <http://www.xmission.com/~cwest/>
e-mail to: tubes@usa.net -or- cwest@xmission.com
P.O. Box 22443, Salt Lake City, Utah 84122

Date: Mon, 08 Dec 1997 21:32:18 -0700
From: Dexter Francis <cwest@xmission.com>
To: boatanchors@theporch.com
Subject: Don't call AES first...please!
Message-ID: <348CC9CA.57EC@xmission.com>

I'm sorry Jack, but all this recent talk of calling AES
for your tube needs is really driving me nuts. (8-0)

I've got almost every tube they do, for 1/4 to 1/3
less. Please, if you want to have more money
left over for Christmas presents, call or e-mail me
first.

-df

Need to Buy or Sell Tubes, Parts or BA Gear?
Visit our Web site at <http://www.xmission.com/~cwest/>
e-mail to: tubes@usa.net -or- cwest@xmission.com
P.O. Box 22443, Salt Lake City, Utah 84122

Date: Tue, 9 Dec 1997 00:01:16 -0500 (EST)
From: ARONGV@aol.com
To: boatanchors@theporch.com
Cc: baswaplist@foothill.net
Subject: Swan Help Needed
Message-ID: <971209000116_1505635090@mrin52.mx>

Hi Gang:

Trying to sort my way through a Swan HF-700S that has low output. Preliminary check shows one socket seems to be working the other not. No obvious physical problems around the sockets (6LQ6s).

I don't have a schematic or manual, so i'm not sure what I'm looking at and I sure don't know the appropriate voltages. The rig's guts and tube lineup, except for the 6LQ6s, look a lot like a Swan 700CX, but I don't have any paper on that one either!

Anybody got any leads I could follow to a manual copy or schematic?

73s & Thanks

Ron W00IZ

Date: Tue, 9 Dec 1997 00:38:43 -0500
From: "Barry L. Ornitz" <ornitz@tricon.net>
To: "Boatanchors Mailing List" <boatanchors@sco.theporch.com>
Cc: "Barry L. Ornitz at Eastman" <ornitz@eastman.com>
Subject: The Boatanchor List Deserves an Apology
Message-ID: <01bd0464\$b74f2520\$2b7fb0cc@ornitz.tricon.net>

I suspect Jack has been too busy to keep up with the happenings lately with the list; I tried to call him several times today without success. I am appalled at some of the recent mudslinging handed out by an admitted list "newbie". Coupled with the dangerous pseudo-science and misinformation this individual has been handing out, he now has the gall to call safety-minded readers on this list clueless and tells them to "engage their brain". I believe that this individual, Arden Allen, KB6NAX, (aallen@sirius.com) owes the Boatanchor List an immediate apology. [And Jack, if my anger warrants throwing me in the penalty box, so be it.]

First some credentials so the group can judge who is qualified here...

As an engineer who designs and builds custom instrumentation for Eastman Chemical Company, I am very familiar with the use of electrical instruments in hazardous areas. I routinely design purged, explosion-proof, and intrinsically safe equipment. The actual requirements are a little different for each country (UL, FM, IEC, CSA, CENNELEC, BASEFA, DIN, etc.) but the basic concepts are very similar: organic solvents with low flash points require the most care when used around electrical equipment.

For those not familiar with the testing, the ASTM defines several methods for determining the flammability of a solvent. The closed-cup (TAG) test is most frequently used since it does not allow the more volatile components of a mixture to evaporate first and be diluted. In the test, a material is heated until an igniting spark is able to detonate the vapors evaporating from the volatile liquid. In thermodynamic terms, the flash point is approximately (but usually slightly greater than) the temperature where the vapor concentration in equilibrium with the liquid just reaches the lower explosive limit. Typically a material whose flash point is 100 F or lower is considered highly flammable. OSHA 1910 requires all electrical apparatus used around such materials to be purged, explosion-proof, or intrinsically safe. Naturally any organic solvent exposed to temperatures above its flash point is potentially explosive.

KB6NAX wrote:

> You are right. WD40, being a petroleum derivative, is
> flammable. You can use it as a flame thrower if you are clever
> (stupid). Its flash point is reasonably high however so you
> need a good hot spark to ignite it. Power down the set first
> if you are going to lube power switches. Using common sense
> you won't have any problems.

WD-40, however, is a little more than just flammable. This should be obvious from looking at its ingredients. Of course, you need to define WHICH particular WD-40 material you are talking about too. The normal packaging is in a 12 or 15-ounce aerosol can. This should immediately ring safety bells. BY DEFINITION, aerosols of flammable materials are considered highly flammable. But let us consider the WD-40 sold in bulk 55-gallon drums. Its flash point is 110 F, just above the 100 F limit. This is not by coincidence, this is by deliberate formulation, and it is done to just squeeze by the requirements so it can be shipped easily. The ingredients are ~70% Stoddard solvent (a refined kerosene), ~20% petroleum base oil, and <10% of a proprietary corrosion inhibitor. How many of us would want kerosene evaporating from a warm radio when we turn it on?

Now the aerosol, as I said before, is BY DEFINITION hazardous. But look what the propellant is: liquefied petroleum gas. The aerosol is composed of ~50% Stoddard solvent, ~15% petroleum oil (actually a paraffinic solvent-refined mineral oil), ~25% LPG (isobutane and propane), and <10% corrosion inhibitor. And Arden jokes about it being a flame thrower! Does this sound safe?

So even ignoring WD-40's flammability problems for now, just how useful is it in restoring radios. Well, its original purpose was

as a water-displacing compound. The Stoddard solvent gives it a low surface tension, which allows it to penetrate small cracks and crevices. But once the kerosene evaporates, the oil is left with a little corrosion inhibitor. This oil does have some limited lubricating properties, but it does nothing to really clean oxidized switch contacts and such. In fact, it is an insulator. The only way it can protect a surface from oxidation is by physically covering it. And like ALL paraffinic oils, it will slowly react with oxygen in the air to cross-link and polymerize producing the well-known "gummy mess" described by several. As an insulator, it can lead to carbon arcs tracks on switches and electrical contacts. Does WD-40 clean? Yes, but it is basically the kerosene in WD-40 that dissolves old grease. Would I clean a rotary switch with it? Perhaps the detent mechanism and the sleeve - but never the contacts! Carbon potentiometers? No way!

[Before I leave the subject of WD-40, I can provide copies of the MSDS for several WD-40 products for those sending me a SASE with at least three stamps.]

Now lets go to some earlier suggestions of KB6NAX...

He says never to use soap and water to clean a radio. Basically this is good advice, but there are times when you are forced to do this - for example, the recent postings about mouse-droppings. If you clean these mechanically and get the dust airborne, you are flirting with histoplasmosis at the least, and Hanta Virus at the worst. If you absolutely have to immerse a radio to clean it, water is still likely to do less damage than any other solvent readily available today. Every time this has been discussed in the past in this group, warnings have always been given about working quickly, being extra careful about paper and other absorbent insulation, rinsing well with tap water followed by distilled or de-ionized water, and about quick and thorough drying. In general, however, total immersion is not for radios.

But then KB6NAX suggests dunking a radio in mineral spirits. Not any of my equipment, if you please! Every capacitor in the radio will likely absorb the solvent and be destroyed. Even resistors, if they have microscopic cracks in their phenolic cases, are likely to be destroyed. Any plastic parts? Gone too. Vinyl or rubber insulated wire? Damaged or even destroyed.

At one point KB6NAX says ammonia and Mr. Clean are the best things for cleaning a radio, and then he says 409 cleaner should never be used because of "ionic contamination". Well, which is it? The argument on ionic contamination is really rather silly.

If you use ANY ionic cleaner, rinse it off well with clean water and allow things to dry thoroughly. Distilled water dries very cleanly - and faster than WD-40 too. The boiling point of WD-40 without the propellant is over 300 F. And the oil left behind after the Stoddard solvent evaporates will eventually turn into that gummy mess! And that gummy mess attracts dirt and dust, which will eventually lead to shorts.

It has been stated over and over: there is no easy way to clean an old radio. It takes care and elbow grease. We all want to minimize our work, but shortcuts often lead to worse problems. I hope the Boatanchor list can get back to its position of a list where topics are discussed without calling others clueless, where information is based on hard data and facts, and where safety is foremost.

OK. I think I have said enough on this subject. Maybe I can get back to what I have spent the last day or two working on - predicting flash points for three and four-component systems using modern thermodynamics (group contribution theory and phase equilibria) mixed with some early methods first proposed by LeChattlier almost 100 years ago. And since this post was mainly based on my professional knowledge, I'll use my full signature.

73, Dr. Barry L. Ornitz, WA4VZQ
Eastman Chemical Company, Research Laboratories
ornitz@eastman.com

Date: Mon, 8 Dec 1997 20:28:05 -0800
From: "Arden Allen" <aallen@sirius.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: SCRUB-A-DUB-DUB
Message-ID: <199712090551.VAA11398@mail3.sirius.com>

> From: JOHN SEHRING <JOHN_SEHRING.parti@ecunet.org>
> To: Old Tube Radios <boatanchors@theporch.com>
> Subject: SCRUB-A-DUB-DUB
> Date: Monday, December 08, 1997 8:27 AM
>
> To: boatanchors@theporch.com
>
> I agree whole-heartedly with KB6NAX's comments on not soaking radios
but.....

Very FB comments John. Thanks for calibrating a few minds. I HATE it when I look into a radio and see a chassis that has been scoured with brillo pads and what not. 73

Arden Allen KB6NAX Vallejo, CA aallen@sirius.com

Date: Mon, 8 Dec 1997 21:45:20 -0800
From: "Arden Allen" <aallen@sirius.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: RAO Receiver Questions
Message-ID: <199712090551.VAA11423@mail3.sirius.com>

Good evening to all.

> From: davidh@getnet.com
> To: Old Tube Radios <boatanchors@theporch.com>
> Subject: RAO Receiver Questions
> Date: Monday, December 08, 1997 5:44 AM

I am ready to fire this up however I want to
> use the variac approach. I have never done this and was wondering what
> the recommended method is for using the variac to reform the lytics.

David;

It's almost as easy as it sounds. First remove the rectifier toob.
Connect an AC ammeter in series with line voltage. Please use only good test leads so we don't have to post an obit. Bring the line voltage up gradually while monitoring current. If all is ok you will get the variac up to 120V. Let the ba run that way for a while so that you can be sure the power transformer is ok. The tubes will glow nicely under these binign conditions which will get you excited about what you are going to do next. Lower the variac to zero output, install the rectifier tube and then raise the variac to about 60-70% line voltage. As the tubes warm up the line current will decrease and as the rectifier warms up more slowly the current will then begin to increase again. Wait until the line current becomes stable and wait a few minutes. Increase the line voltage about another 10% and then let the radio run that way for about 30 minutes while monitoring the line current. If the current begins to creep up it may be a sign the 'lytics are warming up. If so, lower the line voltage a little in hopes of finding a stady current reading. As the 'lytics reform their leakage will decrease and the line current will decrease. You can CAREFULLY feel the lytics for warmth. If all is going well there will be no noticeable temperature increase. Work your way up eventually to 120V. After 60 minutes of running your 'lytics should

either be ok or they'll never make it.

Arden Allen KB6NAX Vallejo, CA aallen@sirius.com

> From: davidh@getnet.com
> To: Old Tube Radios <boatanchors@theporch.com>
> Subject: RAO Receiver Questions
> Date: Monday, December 08, 1997 5:44 AM
>
> I picked up an National RAO receiver at the Mesa, AZ hamfest on Saturday.

> Coincidentally, Lock, W1NML also picked up an RAO at the same hamfest.
>
> This unit was filthy and sitting in the bag of someone's utility trailer.

> Paid \$10 with the original manual and parts manual. I will probably have
> more than \$10 in medical bills from carrying it to my car and lugging it
> up the stairs to my 2nd floor apt. This sucker is heavy - around 80
> pounds. Opened the radio up and it is complete and unmodified except for
> the addition of an S0-239 for the antenna. No rust and no mouse piss
> tragedy either. Nothing inside except dust, dirt and a few spider webs (
> an advantage of living in the desert). Tuning dial was frozen from dried
> up grease - now freed up again - also found one bad tube. After I deox
> the controls and contacts, I am ready to fire this up however I want to
> use the variac approach. I have never done this and was wondering what
> the recommended method is for using the variac to reform the lytics.
>
> Also, any list members have this receiver or similar that have any
> comments or suggestions. Any pictures on the web of this beast? This is
> not my first catacomb receiver as I have an NC-200 on my desk in daily
> use and also have an NC-100A and NC2-40D.
>
> Tnx, 73 and seasons greetings
>
> Dave Hollander N7RK
>
>
>
>
>

> *
>
> Dave N7RK - Webmaster CADXA
> Phoenix, Arizona *DXCC Honor Roll* *WAZ#23 - 75 Meter SSB*
>

```
>
>
>               ex-N7RK/ZB2, VK2ERK, ZM0AJN, WB6NRK, WN6IWX
>
> Boatanchor Collector Extraordinaire preferring Hallicrafters, National
> and what ever else looks interesting!
>
>
>
>
>                               \\\-//
> davidh@getnet.com             (o!o)
> http://www.getnet.com/~davidh
>
-----oo00-( _ )-00oo-----
> -
> E-Mail Address                                     My Home Page
>
>
> Visit the Central Arizona DX Association Home page --- http://cadxa.org
>
```


I just used some metal bands that I had and machined one into a replacement spacer and used it instead. Now the knob action is correct and the knob doesn't look like it is at an angle relative to the front panel anymore.

I have not gotten to the electrical stuff yet but the radio is exceptionally clean and should be straightforward. The RCE has no tuning eye and no s-meter, unlike the ham versions of the NC-100. But it does have a squelch control labeled I.N.S. The later versions of this set like the RCP had this same control labeled CONS.

The standard request: Anybody got an RCE manual they can copy for me? or an RHZ manual? Happy to pay of course...

More on the RHZs later....

73, Don

Date: Tue, 09 Dec 1997 00:18:34 -0600
From: Gary Harmon <gharmon@txdirect.net>
To: boatanchors@theporch.com
Subject: HRO-MX Info
Message-ID: <3.0.3.32.19971209001834.006d44e8@mail.txdirect.net>

Picked up a National HRO-MX last weekend. HEAVY desk top rack came with receiver (HRO-M with crystal filter), AC and DC supplies, two full coil holders, and a rack speaker without the transformer. Also came with a Hy-Manual manual copy.

Any things to watch for when bringing this baby up? Looks like the caps have been replaced with orange drops.

Thanks in advance and 73,
gary

=====
Gary H. Harmon, Jr., K5JWK
6302 Robin Forest
San Antonio, TX 78239-3218
(210) 657-1549
gharmon@txdirect.net
ICQ 5519171

+Too Many Projects, Not Enough Time!

+Pack Unto Others As You Would Have Them Pack Unto You!

=====

Date: Mon, 8 Dec 1997 23:13:24 -0800
From: Scott Robinson <spr@earthlink.net>
To: boatanchors@theporch.com
Subject: Re: SX-28A Audio Output transformer needed
Message-ID: <v03007802b0b29f9c7cb5@[153.34.139.151]>

Folks,

The usual cause of output transformer failures is running them unloaded, that is, no speaker or equivalent load connected. This can cause HV spikes on the primary side that fry the insulation, which sounds like what's happened to that SX-28A unit.

Regards,

Scott Robinson
spr@earthlink.net

Junque is GOOD for you!

Date: Tue, 9 Dec 1997 03:33:56 EST
From: Ho4bart <Ho4bart@aol.com>
To: boatanchors@sco.theporch.com
Subject: Most obscure BA, no foolin' !
Message-ID: <7af84f48.348d0276@aol.com>

this does not belong to me, but appeared on one of Ward Becht's equipment sell lists somewhere in the 1976-1983 range: an 80 - 10 cw xmtr, the size of the Ranger & roughly same circuitry - vfo dial in the front middle - but no AM section, built by : "Moody Bible Institute" for missionary use! can't have been too many of those built. i submit that set is maybe the most obscure BA. (not considering of course gear homebrewed by an individual for their own use.)
hue miller

Date: Mon, 08 Dec 1997 13:52:27 -1000
From: Peter Demmer <ampruss@hits.net>
To: boatanchors@theporch.com
Subject: Re: SCHEMATICS Dentron MLT 2500 Tuner
Message-ID: <348C883B.667A@hits.net>

Seasons Greetings; A very dirty, dusty and dry A/N ART-13 waddled out from under this guys house, down the drive way and jumped into the back of me 76 Ford P/U. Under all the dirt lies a sleeping beauty. Actually the Frog that did the dirty deep also hitched a ride, jumped out and headed for the compost pile. Wait till he gets a load of Girty. Any he didnt't leave any instructions of how to awaken her. I gave her a bath and she is a real beauty. No dings, no dents, tubes are intact, meters are clean and no corrossion. Im going to restore her and put her on the air. Any suggestions before I plung in? Ill be building the pwr supply from scratch. I need a source of a good through operating and service manual. Im ok for any reasonable reproducing expense. Thanks for any reconstructive suggestions. Aloha Peter

Peter L. Demmer KH6CTQ
98-1559 Akaaka St.
Aiea, HI 96701-3051

Date: Tue, 9 Dec 1997 04:03:35 -0500
From: John Ward <ke2st@frontiernet.net>
To: boatanchors@theporch.com
Subject: Re: RAO Receiver Questions
Message-ID: <v03102804b0b24f4b7d78@[209.130.132.125]>

davidh@getnet.com wrote:

>
>I am ready to fire this up however I want to
>> use the variac approach. I have never done this and was wondering what
>> the recommended method is for using the variac to reform the lytics.
>
Then KB6NAX wrote:
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>It's almost as easy as it sounds. First remove the rectifier toob.
>Connect an AC ammeter in series with line
>voltage. Please use only good test leads so we don' have to post an obit.
>Bring the line voltage up gradually while monitoring current. If all is ok
>you will get the variac up to 120V. Let the ba run that way for a while so
>that you can be sure the power transformer is ok.

So far so good. While this is going on, measure the AC across the HV secondary, the voltage should be the same on both legs.

> Lower the variac to zero output, install the
>rectifier tube and then raise the variac to about 60-70% line voltage. As
>the tubes warm up the line current will decrease and as the rectifier warms
>up more slowly the current will then begin to increase again.

This is playing with fire. If the 'lytic decides to suddenly short out, you're up the creek and paddle-challenged! A much better way:

Disconnect any bleeder resistors in the unit so nothing is loading the B+ line. If there are several filter stages with progressively lower voltage capacitors downstream, isolate them from the higher voltage caps. Now reform them carefully: Using something which can provide a low current, like a Heath Capacitor checker, apply dc to the filters and let them form Slloooooowlllyy. Lacking a cap checker, you can use a fixed power supply with a large series resistor, such as 100 k ohms to do this. If the capacitors are healthy, they should charge to the nominal operating voltage after some time. Don't be in a rush, this may take hours. If they don't come back to life in 4 or 5 hours, separate them and try forming them one at a time; there may be only one dud.

Any capacitor which does not respond to this treatment is going to cause you grief in the future. Replace it.

Treat these old machines with respect, and they will repay you in kind.

John, KE2ST

Date: Mon, 8 Dec 1997 23:29:19 -1000
From: Jeffrey Herman <jeffreyh@hawaii.edu>
To: Arden Allen <aallen@sirius.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: RAO Receiver Questions
Message-ID: <Pine.GS0.3.95q.971208232432.27225B-100000@uhunix2>

Arden Allen wrote:

>You can CAREFULLY feel the lytics for warmth.

Yikes! Do you really stick your fingers that close to the B+ while the set is powered up?? =:o <---hair standing on end)

Jeff KH2PZ

Date: Tue, 9 Dec 1997 10:35:54 +0100
From: "Ragnar Otterstad" <danmec@inet.uni-c.dk>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Needed : RT 70
Message-ID: <199712090939.KAA21322@inet.uni2.dk>

I am looking for a RT-70 to complete an AN-GRC 5 installation.

73 Rag OZ8RO

Rag Otterstad OZ8RO Copenhagen suburb: Birkerod
Also JW5HE LA5HE. Previously held : G5BHQ HB9XCG

Collector of W.W.2 German military radio sets, clandestine sets all
periods, cipher equipment.

Adress: Hosterkobvej 10. DK 3460 Birkerod, Denmark

Tel : ++45-4281 5205 evenings. ++45-4497 3366 daytime.

I work for MEC A/S, manufacturer of high quality and good looking
pushbutton switches.
If you are designing electronics equipment and have an interest in switches
please check the homepage at :
[HTTP://WWW.MEC.DK](http://WWW.MEC.DK)

To know more about my ham radio background try my personal homepage :
[HTTP://WWW.WEBSPAWNER.COM/USERS/OZ8RO/](http://WWW.WEBSPAWNER.COM/USERS/OZ8RO/)

Date: Tue, 9 Dec 1997 10:46:44 +0100
From: "Ragnar Otterstad" <danmec@inet.uni-c.dk>
To: <G4BXD@compuserve.com>, "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: Bill GM8APX, your Iraq set ??
Message-ID: <199712091003.LAA28752@inet.uni2.dk>

It could be one of the Warsaw-Pact sets exported to several Asian countries.

If you have a photo I can help in identifying it.

73 Rag OZ8R0

From: BEN NOCK <G4BXD@compuserve.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Bill GM8APX, your Iraq set ??
Date: 8. december 1997 20:02

>Subject: Captured tank set?
>Message-ID: <199712061956.TAA08364@punt1.hw.ac.uk>
>

>I've acquired a very good 20 to 50 MHz synthesised T/R but first I have
>to admit that it's solid state. May I be forgiven. I bought it as junk
>and it was heavy enough (28 lb) to be a boatanchor. That's my excuse;
>besides, there could be people out there who know what it is.

=====

Hi Bill, if you get no joy,
Send me a picture and I'll put in my PW column. That might
get a response.

By the way Bill, I tried to send to you direct on both
your e-mail addresses, both got bounced ?

Ben.

Date: Tue, 9 Dec 1997 07:29:12 -0600
From: Laird Tom N <LairdTomN@JDCORP.deere.com>
To: "'Ken Gordon'" <keng@uidaho.edu>
Cc: "'BA'" <boatanchors@theporch.com>
Subject: RE: Another simple transmitter...
Message-ID: <0958DD57326BD011813300805FBE98DA021FE0FA@e90corp2.dx.deere.com>

Hi Ken, I looked at the schematic, its looks interesting, but
one component caught my eye as possibly being incorrect? I thought I
knew most power supplies. This one appears to be a voltage doubler, but
I have never seen a big electrolytic in series with the AC line before
the diodes? If it belongs there, some one explain it to me.

Tom Laird WC9M Moline, IL

> I have added Sandy Blaize's "High-Power Push-Pull Crystal Oscillator"
> schematic to the stash. It runs 90 watts input to a pair of sweep
> tubes,
> and could run more (150 watts) if you want to make the voltage doubler
> power-supply into a voltage tripler or quadrupler.
>
> you can look at the schematic at:
>
> <http://www.mines.uidaho.edu/~keng/schematics/w5tvw/>
>
>

End of BOATANCHORS Digest 1823

>From ???@??? Wed Dec 10 03:23:51 1997
Message-Id: <199712091924.NAA26477@sco.theporch.com>
Date: Tue, 9 Dec 1997 13:24:24 CST
Subject: BOATANCHORS digest 1824

BOATANCHORS Digest 1824

Topics covered in this issue include:

- 1) Re: SX-101 AVC, &c.
by L & M <toneri@ils.net>
- 2) USS Springfield
by Jderm740 <Jderm740@aol.com>
- 3) RE: Half wave doubler
by Laird Tom N <LairdTomN@JDCORP.deere.com>
- 4) Re: HRO-MX Info
by Bob Roehrig <broehrig@admin.aurora.edu>
- 5) Re: SX-28A Audio Output transformer needed
by Richard Post <post@ouvaxa.cats.ohiou.edu>
- 6) SR-75??
by "Ken Allen" <kallen@YSI.COM>
- 7) Pair of NOS RCA 7094 Finals Available
by arc5@ix.netcom.com
- 8) RE: HRO-50 woes (fwd)
by "Laudon, Kenneth (Kalman) A." <klaudon@pica.army.mil>
- 9) Transmitters are from Mars, Receivers are from Venus
by Dave Hutchison <djhutch@concentric.net>
- 10) Tools

- by Nick England <nick@cs.unc.edu>
- 11) ARC Swapmeet, Dec. 14
by Norm Flasch <flasch@cushy.ece.nwu.edu>
 - 12) 6M Gonset: Thanks for all the replies
by "Terry O'Laughlin" <terryo@wort-fm.terracom.net>
 - 13) HT-37 Alignment Problems
by "Walter Fairclough" <wfairclo@netcom.ca>
 - 14) Heath Freebie
by Brian.Harris@sv.sc.philips.com (Brian Harris)
 - 15) alleged "Regens"
by "Larry W6WUH" <rau@wco.com>
 - 16) ADMINISTRIVIA: No More Reposts
by listown@jackatak.theporch.com (Mail List Owner)
 - 17) DX-60 Saga
by Spencer Petri <spetri@e-tex.com>
 - 18) Re: Snot As Preservative ?
by "Larry W6WUH" <rau@wco.com>
 - 19) WTD: Rack Cabinet for SP-600
by RSOLOMON@systems.TEXTRON.COM
 - 20) Re: Europe with 211 in '29 Hartley
by Ken Gordon <keng@uidaho.edu>
 - 21) Re. Boatanchors deserves an apology
by "Thomas A. Adams" <103360.2133@compuserve.com>
 - 22) Re. Most obscure BA, no foolin'!
by "Thomas A. Adams" <103360.2133@compuserve.com>
 - 23) Re: MostObscure
by "Larry W6WUH" <rau@wco.com>
 - 24) RE: Another simple transmitter...
by Ken Gordon <keng@uidaho.edu>
 - 25) Appolgies and Cleaning
by "Larry W6WUH" <rau@wco.com>

Date: Tue, 9 Dec 1997 08:33:58 -0500 (GMT-0500)
From: L & M <toneri@ils.net>
To: ddillman@igc.apc.org
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: SX-101 AVC, &c.
Message-ID: <199712091333.IAA10159@server1.ils.net>

At 05:28 PM 12/8/97 -0800, Dick Dillman wrote:

>

>Well of course I've been playing tirelessly with the "new" SX-101 Mk. IIIA
>since I wrote of its arrival. And I have a couple of questions for those
>list members knowledgeable about this receiver.

>

>First, the AVC. It works fine but, for my taste, it should have a longer

>delay (with the same short attack time). Has anyone made this change?
>
>Second, the S meter. It was up off the peg with no antenna on 40m. A
>delicate twist of the S meter adjust pot on the rear panel cured the problem
>but now I see that the S meter zero setting varies with the position of the
>Selectivity control. Is that to be expected?
>
>Are there any particularly good articles on the '101 I should try to scare up?
>
>And finally, here's standard plea No. 23: Does anyone have a manual they're
>willing to share?

>
> Dick Dillman
> <ddillman@igc.apc.org>
> WPE2VT W6AWO
> Collector Of Heavy Metal:
> Harleys, Willys and Radios Over 100lbs.
>
>

Sorry no manual anymore Dick but I used to have the same model SX101A MKIII.
It was a superb receiver and I wish I still had it. The problem with the
S-meter may be dirty switch contacts. I did not have that problem with mine
and the SX115 that replaced it does not have that problem either. I'm sure
that you will enjoy that fine receiver.

73...Mike VE3FGU

Mike & Lynda Toneri E-mail: toneri@ils.net

Keswick, Ontario

WEBPAGE: <http://www.geocities.com/heartland/meadows/8218>

Date: Tue, 9 Dec 1997 08:53:37 EST
From: Jderm740 <Jderm740@aol.com>
To: boatanchors@theporch.com
Cc: gpewitt@execpc.com
Subject: USS Springfield
Message-ID: <6fc4d907.348d4d69@aol.com>

Gary

She was a Cleveland class Light Cruiser commissioned Sept 8 1944. Her bow # was
66. Present status unknown. Probably scrapped or given away to some country
and renamed.

There was a time when the name identified the type of vessel if it were a
"ship of the line". Battle Ships were States.

Heavy Cruisers were State Capitols.

Light Cruisers were major cities, and
Destroyers were people.

All that changed after the war. Now It's hard to tell.

Jack

Date: Tue, 9 Dec 1997 08:23:26 -0600
From: Laird Tom N <LairdTomN@JDCORP.deere.com>
To: "'William L. Fuqua III'" <wlfuqu00@pop.uky.edu>
Cc: "'BA'" <boatanchors@theporch.com>
Subject: RE: Half wave doubler
Message-ID: <0958DD57326BD011813300805FBE98DA021FE0FB@e90corp2.dx.deere.com>

Thanks for the info. That's what I like about the list, even at age 49,
I'm still learning. It was probably in my General test 25 years ago and
I forgot! They say
if you want to look smart, surround yourself with smart people, that's
why I'm here.

Tom Laird WC9M Moline, IL

> -----Original Message-----

> From: William L. Fuqua III [SMTP:wlfuqu00@pop.uky.edu]
> Sent: Tuesday, December 09, 1997 8:11 AM
> To: Laird Tom N
> Subject: Half wave doubler

>
> I have not seen the schematic but a half wave doubler
> has a capacitor in series with the AC line.

>
>
> C1 + D2
> ac-----) |-----> |----- +
> | |
> | | +
> --- D1 --- C2
> ^ ---
> | |
> | |
> -----
> common

> Sorry for the poor drawing.

> During the negative half of a cycle C1 charges
> to the peak value of the ac line voltage via D1.
> During the positive half cycle C1's voltage is in
> series with the ac line and C2 charges to the peak
> value of the ac line plus the voltage on C1 (via D2) if
> C1 is considerably larger than C2. Therefore
> the output is 2 times the peak value of the ac line
> voltage.
>
> 73
> Bill wa4lav
>
> William L. Fuqua III P.E. E-mail WLFUQU00@POP.UKY.EDU Phone (606)
> 257-4155
> Department of Physics and Astronomy CP-177 Chem. Phys. Bldg.
> University of Kentucky , Lexington, Ky 40506-0055
>
>

Date: Tue, 9 Dec 1997 08:31:30 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Gary Harmon <gharmon@txdirect.net>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: HRO-MX Info
Message-ID: <Pine.ULT.3.96.971209083053.16591F-100000@admin.aurora.edu>

On Tue, 9 Dec 1997, Gary Harmon wrote:

> Any things to watch for when bringing this baby up? Looks like the caps
> have been replaced with orange drops.

Just be sure and always switch off the B+ when changing coils.

"No one is listening until you make a mistake"
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Tue, 9 Dec 1997 09:27:11 -0500
From: Richard Post <post@ouvaxa.cats.ohiou.edu>
To: boatanchors@theporch.com, BOATANCHORS@LISTSERV.TEMPE.GOV
Subject: Re: SX-28A Audio Output transformer needed
Message-ID: <v03007800b0b2ff50bdcf@[132.235.46.28]>

I agree with Scott Robinson's assessment. Running an output transformer unloaded causes VERY high voltage spikes in the primary. (Yes, I found out by experience many years ago.) Maybe with todays technology, the right MOV or back to back zeners on a secondary tap might prevent the problem. A resistor also works and was a common solution in older communication radios.

The SX-28(a) has a resistor that is always tied in to the secondary side. Make sure it is intact and of correct value and not disconnected somehow by the headphone jack contacts. My SX-28 had a much smaller universal replacement transformer in place of the original when I bought it. Because of the smaller size, only one leg of the replacement transformer was bolted to the chassis. (At least they didn't drill a hole for the other leg!) I found a size match and primary impedance match in an old parts Magnavox phono. As a result of the transplant, I only have the low ohm impedance output, no 500 ohm out. That's not a handicap as I do not use the 500 ohm and could easily add an outboard matching transformer if I did need it.

Rich KB8TAD

>Date: Mon, 08 Dec 1997 23:13:24 -0800
>From: Scott Robinson <spr@earthlink.net>>
>Folks,
>
>The usual cause of output transformer failures is running them unloaded,
>that is, no speaker or equivalent load connected. This can cause HV spikes
>on the primary side that fry the insulation, which sounds like what's
>happened to that SX-28A unit.
>
>Regards,
>
>
>
>Scott Robinson
>spr@earthlink.net
>
>Junque is GOOD for you!
>

Boatanchpor Pix website

<http://ouvaxa.cats.ohiou.edu/~post/PIX/BA.html>

mirror site

<http://www.qsl.net/kb8tad/>

visit the Museum of Radio and Technology website

<http://www.library.ohiou.edu/MuseumR&T/museum.htm>

Date: Tue, 9 Dec 1997 09:42:35 EST
From: "Ken Allen" <kallen@YSI.COM>
To: boatanchors@theporch.com
Subject: SR-75??
Message-ID: <199712091441.JAA10893@dialup.oar.net>

Hi all,

I was talking with a friend last night and he said he had heard of but never seen a Hallicrafters SR-75. The unique feature about it was that it was a transceiver, having a low power transmitter section on 40 and 80 Meters.

Does such a radio exist? How common are they? Does anyone have one for sale? He says if he ever finds one for less than a King's ransom, he wants to get it.

So, I'll leave it with the experts (that's you guys).

Thanks for any info,
73
Ken, KB8KE

Date: Tue, 9 Dec 1997 08:45:52 -0600 (CST)
From: arc5@ix.netcom.com
To: baswaplist@foothill.net
Subject: Pair of NOS RCA 7094 Finals Available
Message-ID: <1997129845736334@>

NOS boxed pair of RCA 7094 finals (one box torn),
used in Hallicrafters amps.

Will trade for Drake equipment like:
Good condition Drake AUX-7 board, R4B receiver (no C),
T4X or XB transmitter, C-4 console.
Will discuss other Drake equipment valued between about \$100-\$200.

"Good condition" means:
At least 90% of original finish intact.
Dusty/Dirty OK as long as cleanable with light work.

No repainted cabinets.
No gouges in the aluminum (light scratches and wear OK).
No drilled holes or unoriginal knobs.
No "improvements" (modifications).
No rusty/corroded chassis
("Browned" copper is OK, but no green or nicotine sludge).

Just a good, working-class rig that has been
basically taken cared for.

Will also discuss trades for Pre-1946 military equipment
or cash sale.

73 DE Dave Stinson AB5S
arc5@ix.netcom.com
Austin, Texas

Date: Tue, 9 Dec 1997 09:54:30 -0500
From: "Laudon, Kenneth (Kalman) A." <klaudon@pica.army.mil>
To: Old Tube Radios <boatanchors@theporch.com>,
 "rbarmore@indy.net"
Subject: RE: HRO-50 woes (fwd)
Message-ID: <E1BB4E1B16BBD011BBF500A024D839070B1385@pica-emh2.pica.army.mil>

I am not as much of an HRO expert as I wish to be (a non-whiney way of saying that I don't own as many of these as I'd like to!), but I hear that one can damage the HRO-7 and later models, by insertion of coilsets from pre-(-7) models, because the vertical location of the contacts on the later coilsets was slightly shorter than the earlier ones. So even though an earlier coil may function electrically in a later radio, insertion may damage the mechanicals. Old hat to you real experts out there.

I recall someone saying a day or so ago that they are using a AA coilset with handles and freq. chart, in an HRO-60! This shouldn't work, but apparently the 2nd conversion switch dosen't get activated, and it seems to work. Good case in point, to be concerned for mechanical damage to the contacts.

73, Kalman W2ES
klaudon@pica.army.mil

Date: Tue, 09 Dec 1997 10:21:10 -0500
From: Dave Hutchison <djhutch@concentric.net>
To: boatanchors@theporch.com
Subject: Transmitters are from Mars, Receivers are from Venus
Message-ID: <348D61E6.3807E22E@concentric.net>

In reviewing Dick Dillman's e mails about a lovely SX-101 that seduced him and a nasty Heathkit transmitter he located on "the rock" I have concluded there are distinct identities at work here.

A receiver begs for long, loving glances into her eyes for hours at a time. Shes knows that you care for her while most don't even understand her. She appreciates being taken care of, washed and cleaned by loving hands. Always a sucker for new make up she likes to present herself to strangers with her most attractive appearance.

A receivers only wish is to be understood. She wants to be discovered slowly. Carefully caress the knobs on her face like sharing a soda pop with two straws. And as you get to know her and understand her you begin to realize how much she really cares for you.

A transmitter on the other hand only wishes to be used in shorts spurts. The transmitter is always playing games with mother nature trying to find new ways to sneak an extra DB through much like a pitcher trying to throw strikes. The transmitter prefers to be left alone to seek out its own destiny. Please do not touch the transmitters knobs anymore than is absolutely necessary. At the end of the day the transmitter keeps its own scorecard.

Finally, linear amps are the transmitters close friend Guido. A bulging box of hairy biceps, the linear taunts the ionosphere into refusing a contact. A linear is someone you don't want to mess with. He has a VERY big transformer on his shoulder.

Now that we understand our friends the transmitter, the receiver and the linear we will be able to seek them out much faster at hamfests as we will know what to listen for and be able to communicate with each of them more effectively.

Date: Tue, 9 Dec 1997 10:28:32 -0500 (EST)
From: Nick England <nick@cs.unc.edu>
To: boatanchors@theporch.com
Subject: Tools
Message-ID: <199712091528.KAA16639@altair.cs.unc.edu>

73 Terry O' WB9GVB

Date: Tue, 9 Dec 1997 11:32:01 -0500
From: "Walter Fairclough" <wfairclo@netcom.ca>
To: <boatanchors@theporch.com>
Subject: HT-37 Alignment Problems
Message-ID: <01bd04bf\$f9c5db00\$645bb5cf@wfairclo.netcom.ca>

OK experts, I need your help. I have been trying to align a near mint HT-37 without much luck. I can get full output on 80, 40 and 20M but very little on 15 and 10.

Unless there is an error in the manual or some secret that I haven't discovered yet, I cannot get the rig to perform the way its supposed to.

While the drive at the input of V8 (2nd mixer) is fairly equal across the bands, that isn't the case at its output. Tube replacement, circuit resistance and voltage checks all appear as per manual. As the manual states, the alignment for 15M is slightly different than for 80 and 40 as the 20M and 15M bands share the same coil. If I align 20M for proper output, 15M does not put out and vice versa.

If anyone has run across this problem and has found the solution, I would sure appreciate any suggestions.

I suspect that the previous owner had the problem and put it on the shelf, thus the reason for it being almost pristine.

Thanks for reading.

Walter Fairclough - VE3EN
wfairclo@netcom.ca

Date: Tue, 9 Dec 1997 10:45:32 -0800
From: Brian.Harris@sv.sc.philips.com (Brian Harris)
To: boatanchors@theporch.com
Subject: Heath Freebie
Message-ID: <000C6D7B.001914@svlima.sv.sc.philips.com>

Best convincing story gets this freebie:

a yellow insert, probably came with a kit, announcing -

A NEW GOVERNMENT RULING...

dated July 5, 1956, reads in part as follows:

(blah, blah, blah, info about a 10% excise tax to be added to kits)

Include address with your BS.

73, Brian Harris WA5UEK

Date: Tue, 9 Dec 1997 09:01:38 -0800
From: "Larry W6WUH" <rau@wco.com>
To: "boatanchors" <boatanchors@theporch.com>
Subject: alleged "Regens"
Message-ID: <199712091702.JAA24547@shell.wco.com>

some of the recievers being refered to here as "regens" are infact TRFs or Super hets with regeneration in the If for more gain or with regenerative detectors in place of grid leak dectectors, diode detectors, etc...

you need more than a paragraph from some book to make the distinction...

most of these radios from 20's and 30's all appear in Ryders ..Volume 1-23..and can be found in the Ryders Index.. schematics, alignment.. yada yada..

larry

Date: Tue, 9 Dec 97 11:15:00 CST
From: listown@jackatak.theporch.com (Mail List Owner)
To: boatanchors@sco.theporch.com
Subject: ADMINISTRIVIA: No More Reposts
Message-ID: <199712091715.LAA16321@jackatak.theporch.com>

Gang-

This is a reminder that reposting of For Sale or Wanted items from other lists is discouraged.... nay prohibited on the BoatAnchors list.

If a BA list member wants to post the item elsewhere and on the BA list, that should create NO problem.

The problem comes when the poster in the other venue is not asked about the re-post... without the permission of the poster, problems are guaranteed, and I do not have the time, the energy, or the desire to address and deal with the headaches that re-posting causes...

So, henceforth, let's have NO re-posts from other sources referred to the list. Yes, I know this may sound pretty provincial, but those who really care have browsers and know where to look, and those who don't, probably don't....

I do NOT need the aggravation of someone who posts to a newsgroup and then has to fight off the hungry folks from the BA list who want to rearrange his viewpoint or calibrate his selling technique.

ENOUGH! Already... Just don't do it!

--

73

Jack, W4KH/Mobile - - - Mailing List Archiver/Owner - - -
listown@jackatak.theporch.com - "Plus ca change, plus c'est la meme chose"

Date: Tue, 9 Dec 1997 11:20:36 -0600 (CST)
From: Spencer Petri <spetri@e-tex.com>
To: boatanchors@theporch.com
Subject: DX-60 Saga
Message-ID: <199712091720.LAA23397@sco.theporch.com>

Hey gang,

Got the 75A4 out to the shack last night. Did some listening on the low end of 40 meters. All kinda European DX pouring in.

Got the Heathkit/Daystrom DX 60 outta the pile today. Got it at the Tyler tailgate sale in the Spring for \$20. Better condition then the DX 60B. Removed the covers, MAMA, this fellow did good work. Checked the tubes and cleaned the front panel and cabinet with WD 39 5/8, dare I say 40. Two cracked knobs. Different color then the B model. Wrapped them with paper towels and squeezed the crack tight with vice-grips and filled the inside of the knob with glue (not where the shafts fit).

Dremeled flats on the switch shafts so I won't have to use a cheater pipe to tighten the knobs.

As soon as the knob glue sets, I'll fire it up on the variac and cook it in.

Even got out the bug and practized. Talk about rough. I keep waiting for it

to automatically make dahs. I've been ruined?

Making progress.

73 de Pete WA5JCI EM21 "the future will be better tomorrow"

.....
6 Mtr -- WAS #490, WAC CW, DXCC/91 Countries, VUCC #361/626 Grids
.....
2 Mtr -- 36 States -- VUCC #346/183 Grids

Date: Tue, 9 Dec 1997 09:26:23 -0800
From: "Larry W6WUH" <rau@wco.com>
To: "JOHN SEHRING" <JOHN_SEHRING.parti@ecunet.org>
Cc: "boatanchors" <boatanchors@theporch.com>
Subject: Re: Snot As Preservative ?
Message-ID: <199712091728.JAA04372@shell.wco.com>

ah jesus... dirt wrecks stuff.. mechanically and electrically... now i agree whole heartedly that the garden hose and petroleum douche brigade are a bunch of looney tunes.. but cautious and thorough use of soap and water with a sponge... nicley wiped up right after application.. is an intelligent first step to getting an old radio going... Just avoid the stuff that was never meant to get wet... the underside of the chasis and the coils and transformers...

In the case of a really messed up radio...you sometimes have to do desparate things...like douche the thing with some ozone eater (don't say i mentioned it).

unless yo think the snot you sneeze on these old dust bags is some kind of preservative...

old dust attracts and holds moisture.. and is corrosive... keep it clean. and dry and it will last...and keep the grit out of the pots and switches and bearings too.

and, while you are at it.... toss out those old wax caps before they start a fire..

that is carrying " radios that glow in the dark" ...too far .

73 larry

P.S. : Solvents

There are two basic categories of solvents Non Polar and Polar (this refers to free- Ion availability, or if you prefer...to Ph)

Non Polar solvents can include some Detergents (non-ionic surficants) and Petroleum products...basically anything wtih a hydrocarbon chain.. with our with out double bonding as in Benzine ring. These range in volitiilly from motor oil through kerosene, to paint thinner, gasoline, and naptha.

Polar solvents generally have either an -oh group or a free electron making them acids(phosphoric, hydrocloric vinegar etc), bases (like ammonia), alcohols, or one of a whole bunch of other organic compound which number in the 10's of millions.,

Basically... the Non Polar solvents will not attack metal, or most plastics. Some are very volitile, an will evaporate leaving little or no residue (laquer thinner) others will remain in wood or cloth forever (diesel or oil). Of these.. some... such as Detergents are water soluable (these generally contain both polar and non polar molecules) and can be rinsed away completely with water...and are generally not volatile.

Polar solvents in extreme Phs can attack most anythng metal, wood or plastic... in milder forms.. like alcohol or amonia.. they are relatively "safe" but with specific limitations.. like alcohol on platics and some paints/laquers.

Date: Tue, 9 Dec 1997 12:53:50 -0500
From: RSOLOMON@systems.TEXTRON.COM
To: " (052)boatanchors(a)sco.theporch.com"
<boatanchors@sco.theporch.com>
Subject: WTD: Rack Cabinet for SP-600
Message-ID: <0034100001736271000002L012*@MHS>

I almost hesitate to ask, but does anyone in the Southern New England (+/- 100 miles of Boston) have a rack cabinet that I can use to mount an SP-600 (and maybe another unit)? I need a minimum of 10.5 inch rack panel height, but could use any up to 24 inch panel height. The depth must be 18 inch min. to accomodate the receiver. Shipping costs prohibit looking further out, so "local" is better. Rear door a plus, not mandatory. What say folks ???

73, Dick, W1KSZ

Date: Tue, 9 Dec 1997 10:22:33 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: W7FG <w7fgboat@w7fg.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Europe with 211 in '29 Hartley
Message-ID: <Pine.BSF.3.95.971209102207.8511B-100000@piobaire.mines.uidaho.edu>

> Needless to say coming from a DX chasing and Contesting Background for
> 30+ years, big transmitters and antennas it's a "Blood pressure raising
> Experience" to work Europe with 20 watts with a 20's style transmitter!!
>
> A little Chirp and AC note never hurt anyone!!
>
> Had to share this with ya BA folks.
>
> 73's Gary

Good going, Gary!!!!

Ken

Date: Tue, 9 Dec 1997 13:29:36 -0500
From: "Thomas A. Adams" <103360.2133@compuserve.com>
To: "INTERNET:boatanchors@theporch.com" <boatanchors@theporch.com>
Subject: Re. Boatanchors deserves an apology
Message-ID: <199712091330_MC2-2B56-7B80@compuserve.com>

Hello Barry.

Thanks for a post which was thoroughly enlightening, as yours ALWAYS are.
Well written, Sir!

Re. the questionable manners shown; I have been letting it pass. The INTERNET is a pretty vicious place, and it sometimes takes time for newbies here to realize that BOATANCHORS is a different kinda animal. Gratuitous flames, unwarranted insults and the like have no place here. I have found it necessary on a couple of VERY rare occasions (like, two or three times in the last 5 years or so) to indulge in digital blood sports, but I've taken it OFF THE LIST. ON the list, the only thing appropriate is a gentlemanly or ladylike comment, even tho your internal BS detector is going off full blast! <grin>

However, I WILL plead guilty to rather heavy handed sarcasm at times (remember the Mahon Loomis Memorial Scholarship Fund? <grin>).

I have been steering clear of the WD-40 thread, for a number of reasons. First, I haven't the time for it; I have to deal with finals, and I hit BOATANCHORS as relief whenever Rene Descartes and Max Weber get to be too toxic! <grin>

Next, as you no doubt know, I am a shy, retiring person, who normally shrinks from INTERNET combat (and if you buy THAT one, I have a nice bridge in Brooklyn for sale.. the towers are PERFECT for holding up that 160 metre Sterba Curtain you've always wanted!).

Finally, I have encountered the school that says WD-40 makes a good contact cleaner before. I immediately shun such conversations; these people can only be convinced by sad experience. As my ex-boss, the great Bill Woods once sagely observed, "Sometimes ya gotta just sit back and ENJOY the train wreck".

I seldom use the stuff for ANYTHING here; the only can I have is in my hunting gear, to be used as emergency first aid for a gun that gets dunked in water. It buys me enuff time to get the weapon home for a REAL disassembly / cleaning / lube. It is sometimes useful as a quickly available and rather crude cleaning solvent and water displacer, but NOT as the sole treatment on ANYTHING. But I digress...

At the time that WD-40 was first hitting the consumer market, I was field servicing 2 way gear for Motorola. I saw enough gear loaded with the slop to last me a lifetime. Folks who didn't wanna pay for a service call blasted control head pots, switches, antenna connectors, etc. with the stuff. I once serviced a UHF MOTRAN which had the front end receiver cavities filled with WD-40! HOW they managed that one, I'll never know. Almost universally, WD-40 wound up causing a repair that cost much more than it would have originally.

BTW... pools of WD-40 in the front end didn't seem to significantly detune the UHF cavities; sensitivity was pretty good with the slop in there. But then, I once ran into a Motorola high band MOTRAC rig with a MEASURED

receiver sensitivity of .2 uv for full quieting while the radio was operating (unknown to me at the moment) UNDER WATER!

Any hunk of hamfest gear I see that has the slightest scent of stoddard's solvent coming from it REALLY gets a careful inspection before things go any further.

As you point out, it has to be the world's WORST pot / switch cleaner. If you manage to get enough in, the effect is immediate. Also, paper / phenolic circuit board seems to drink it up like a sponge, and CANNOT be removed.

WD-40 is a bad idea for BA rigs. And flames on this list are just as bad.

73's,

Tom, W9LBB

Date: Tue, 9 Dec 1997 13:29:31 -0500
From: "Thomas A. Adams" <103360.2133@compuserve.com>
To: "INTERNET:boatanchors@theporch.com" <boatanchors@theporch.com>
Subject: Re. Most obscure BA, no foolin'!
Message-ID: <199712091330_MC2-2B56-7B7F@compuserve.com>

Interesting radio you've got there. Moody has always been heavily into radio in all of it's forms, and they're still a heavy duty force in religious broadcasting. They have been since the 1920's.

As an ex-Chicagoan, I have encountered some Moody Bible Institute gear before.

In the '60s and '70s, Moody was a VERY interesting place. Would you believe they offered Batchelor's degrees in such obscure things as "Missionary Communications", and "Missionary Pilot"?

I got the catalogue back then, just to check things out. The Communications course took you from Novice ham to Extra, and also got you a 1st Class Radiotelephone ticket. The Mission Pilot degrees (mostly taught at an airfield they operated in Kentucky or Tennessee) took you from a Single Engine Private license, to a Multiengine Commercial ticket with an ATR (Air Transport Rating; the ticket an airline pilot carries).

The Moody Bible Institute on the near north side of Chicago used to have an

absolutely incredible antenna farm on top of a dorm / classroom building; there must have been an acre or so of directional and wire HF antennas of every description up on that far beach!

I was looking for a school to go to at the time, and I was interested in BOTH programs. Besides Moody, I was checking out the catalogue for University of Guam! I was REALLY hot to get out from under parental control, and the thought of a DX callsign was an added inducement.

My ardor for Moody Bible Institute was cooled immediately when I looked at the OTHER course requirements... Religion, sacred music, preaching... not exactly my cup of tea.

For a mid '60s vintage Hippy / late period Beatnik, and would-be hedonist, the student regulations were an absolute horror. REQUIRED dorm living, mandatory chappel attendance, students FORBIDDEN to own cars, a curfew at 2200 on weekdays, and 2300 on weekends...

And a dress code... A DRESS CODE!!! I don't think I even OWNED white shirts, coats, ties, and all that muck! Jeans, turtleneck sweaters, and worn out sneakers were more my speed (one of my heros is Maynard G. Krebs), all the better to hang around with the OTHER Pot Heads up at the Earl Old Town and the other folk music joints!

Somehow, with my decidedly left wing antiwar politics, and a vocabulary liberally sprinkled with the F- word, I quickly came to the conclusion that Moody Bible Institute and I were never gonna be a match, no matter HOW attractive the program offerings. I'm OUTA here, before I even apply for admission!!! <GRIN>

Anyway... at a local junk dealer (the best source in Chicago for RTTY machines in the '60s), I once saw a load of stuff that the proprietor had gotten from Moody. It was interesting.

Apparently, they had assembled a bunch of radios (maybe 6 or 8 of them) for missionary use that were not issued for one reason or another.

In a large, sturdy plywood box, they had put together a TCS receiver, an ARC-5 "Command" transmitter, an MD-7 modulator, and a couple of BIG vibrator supplies to power the whole mess. A kit of spare tubes and parts was included in a tin money box with each rig. The box / shipping crate had fold-down front door / writing surface with a J-38 bolted to it. A T-17 carbon mike was in each package too. A large neon bulb was on the antenna connector of each Command transmitter, no doubt as a tuning indicator.

I dunno... it's possible that the electronics section at Moody might just have a manual for that rig in the files. They engineered some pretty imaginative stuff for thier own use, and they probably keep info on thier

designs.

73's,

Tom, W9LBB

Date: Tue, 9 Dec 1997 10:06:18 -0800
From: "Larry W6WUH" <rau@wco.com>
To: "Ho4bart" <Ho4bart@aol.com>
Cc: "boatanchors" <boatanchors@theporch.com>
Subject: Re: MostObscure
Message-ID: <199712091807.KAA23626@shell.wco.com>

Now... check out Moody Bible Institutes CIA connections.. which many
"missionary" groups have/had.

Could we have something designed to look very innocent...or were the lambs
just learning by doing ?

Date: Tue, 9 Dec 1997 11:02:39 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: Laird Tom N <LairdTomN@JDCORP.deere.com>
Cc: "'BA'" <boatanchors@theporch.com>
Subject: RE: Another simple transmitter...
Message-ID: <Pine.BSF.3.95.971209104546.8511E-100000@piobaire.mines.uidaho.edu>

> Hi Ken, I looked at the schematic, its looks interesting, but
> one component caught my eye as possibly being incorrect? I thought I
> knew most power supplies. This one appears to be a voltage doubler, but
> I have never seen a big electrolytic in series with the AC line before
> the diodes? If it belongs there, some one explain it to me.

Does look odd, doesn't it? But, at least according to my 1977 ARRL
Handbook, page 119, that is correct. I think that if you trace the paths
through the diodes, you will see that the first capacitor does NOT have to
deal with AC, but DC in the proper direction. (Well, OK, just a LITTLE
AC depending on the reverse voltage drop of the diodes.) In any case, this

circuit allows one side of the "transformer" to be grounded.

The diagram on page 118 is a little different, but it still looks like AC passes through one capacitor to ground, IF you don't take the diodes into account. This circuit does NOT allow one side of the transformer to be grounded.

I am not being either very clear about this or exhaustively technically correct.

Ken W7EKB

Date: Tue, 9 Dec 1997 09:49:00 -0800
From: "Larry W6WUH" <rau@wco.com>
To: "Barry L. Ornitz" <ornitz@tricon.net>
Cc: "Arden Allen" <allen@sirius.com>, "boatanchors" <boatanchors@theporch.com>
Subject: Appolgies and Cleaning
Message-ID: <199712091803.KAA21752@shell.wco.com>

Thanks barry.. now Arlen is an old radio acquaintance, who likes old radios..so lets give him a chance to settle in (btw Arlen.. always better to argue via private mail).... but i agree with you 100 %.. except where you don't like soap and water....what the heck is wrong with carefully cleaning the top of a radio chasis with wrung out sponges.. and rags and q-tips....with dish detergent and hot water. followed with fresh water from my well (very little mineral content) or you distillery ?

Are total submerision or total abstinence the only choices.. or could i continue to spend a few hours doing it right... and maybe teach a few of the numb nuts too ?

thanks for the factual info on WD-40... the spray cans blow up quite frequently BTW.

larry

End of BOATANCHORS Digest 1824

>From ???@??? Wed Dec 10 03:24:38 1997
Message-Id: <199712100154.TAA05922@sco.theporch.com>
Date: Tue, 9 Dec 1997 19:54:46 CST
Subject: BOATANCHORS digest 1825

BOATANCHORS Digest 1825

Topics covered in this issue include:

- 1) Re: Anyonr tried 6146 Pentodes for audio?
by jkh@lexis-nexis.com (John Heck)
- 2) Pologies/cleaning/apologies
by "Larry W6WUH" <rau@wco.com>
- 3) Schematics: ART-13...
by Ken Gordon <keng@uidaho.edu>
- 4) Re: Anyonr tried 6146 Pentodes for audio?
by John Shriver <jas@shiva.com>
- 5) Re: Anyonr tried 6146 Pentodes for audio?
by "Robert P. Okas" <vintage@best.com>
- 6) (Fwd) Re: Anyonr tried 6146 Pentodes for audio?
by "Ed Santavicca" <santavic@ct.picker.com>
- 7) Collins KWS-1 Transmitters for trade for Collins "S" line station
by "Bruce J. Howes" <bhowes@buffnet.net>
- 8) Re: (Fwd) Re: Anyonr tried 6146 Pentodes for audio?
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 9) Igor
by "Arden Allen" <aallen@sirius.com>
- 10) Moody; A CIA front?
by "Thomas A. Adams" <103360.2133@compuserve.com>
- 11) Crystals...
by Ken Gordon <keng@uidaho.edu>
- 12) TYPE 30 T00B
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 13) SX-101A STUFF
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 14) ANOTHER SIMPLE TX
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 15) RAO RECEIVER QUESTION
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 16) A real oddball for tube collectors...
by "Thomas A. Adams" <103360.2133@compuserve.com>
- 17) "Pencil" tubes??
by Sandy W5TVW <ebjr@worldnet.att.net>
- 18) Tools
by "Doug Obenchain" <dobencha@iquest.net>
- 19) FS: Hammarlund Manuals
by "William C. Robbins" <billrobb@net-link.net>
- 20) FS: Collins manuals
by "William C. Robbins" <billrobb@net-link.net>
- 21) FS: Drake Manuals
by "William C. Robbins" <billrobb@net-link.net>
- 22) Re: RAO Receiver Questions

by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
23) Re: Half wave doubler
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
24) Re: SX-28A Audio Output transformer needed
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
25) Re: Tools
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
26) Re: books re "regens" etc
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>
27) Re: Heath Freebie
by Bill Jarvis <B.H.Jarvis@hw.ac.uk>

Date: Tue, 9 Dec 97 14:27:51 EST
From: jkh@lexis-nexis.com (John Heck)
To: boatanchors@theporch.com
Subject: Re: Anyonr tried 6146 Pentodes for audio?
Message-ID: <9712091927.AA23476@beans.lexis-nexis.com>

Folks,
Just read the following article at rec.audio.tubes. Better stock up on 6146B's before the golden ears run 'em up to \$50+ like 45's, 5AR4's, etc. No kidding, if this idea takes off prices will go up fast. I couldn't believe that 45's got so pricey so fast, and we were all startled by 5AR4's just recently.

In article 1@newsd-112.bryant.webtv.net, gataibo@webtv.net (Randy Nachtrieb) writes:

>Hi Kenneth,

>

> The 6146 when properly used is an excellent audio tube. One example
>is the Altec 1530, a superb amplifier; there is also an article from the
>'50's in "Audio Engineering" for the "Maestro" a very fine construction
>project.

> While the 6146 may have its detractors, it was sufficiently good
>for Peerless to make a special output xfmr for it, the S-268-Q; as well
>as Acrosound, the T0-350.

> The main things to realize, are that the 6146 does not like
>excessive screen voltage & that the screen voltage must be well
>regulated. The other thing is that it has a relatively low
>plate-dissipation rating & should therefore not be biased very heavily
>toward class A.

>

>

> Regards,

>

> Randy Nachtrieb

> Enlightened Audio
> New Art Loudspeakers

Date: Tue, 9 Dec 1997 11:40:06 -0800
From: "Larry W6WUH" <rau@wco.com>
To: "boatanchors" <boatanchors@theporch.com>
Subject: Pologies/cleaning/apologies
Message-ID: <199712091941.LAA04637@shell.wco.com>

Er.. uh...operator error.. posted private mail to BA... most embarrassing..

my appologies to all friends involved.. icluding everyone who had to read
my tripe.

larry W6WUH

Date: Tue, 9 Dec 1997 12:02:24 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: boatanchors@sco.theporch.com
Subject: Schematics: ART-13...
Message-ID: <Pine.BSF.3.95.971209120123.8511P-100000@piobaire.mines.uidaho.edu>

> from scratch. I need a source of a good through operating and service
> manual. Im ok for any reasonable reproducing expense. Thanks for any
> reconstructive suggestions. Aloha Peter

Peter:

Contact Ken, KD6B, who is running an ART-13 on the air daily. I have
worked him twice on 80 and his signal is really beautiful.

Ken W7EKB

Date: Tue, 9 Dec 1997 15:05:12 -0500
From: John Shriver <jas@shiva.com>

To: jkh@lexis-nexis.com
Cc: boatanchors@theporch.com
Subject: Re: Anyonr tried 6146 Pentodes for audio?
Message-ID: <199712092005.PAA14307@brill.shiva.com>

The good news is that the 6146A doesn't have a filamentary cathode, so it is not "pure" by the current Japan-sourced theories.

Also, it is not used in any guitar amps to my knowledge. They are the main drain on the supply of 6CA7, 6L6, 7591, 6550, and other heater-cathode power-pentodes. On the other hand, they (guitar amps) are the only market LARGE enough to sustain the remaining tube vendors. Tube audio for the home, and boatanchor radios, are not a large enough market to sustain tube manufacturing. (Well, there are exceptions, like the 300B, but with prices running from \$100 to \$2000 for current variants thereof, that shows you how uneconomic a market that really is. Also, look at the prices on the Svetlana audio variants of the 572, all over \$100.)

All the ham gear that uses things like 6CA7/EL34, 6550, etc., is probably (thankfully) perfectly happy with the quite reasonably good power tubes Svetlana is making.

Oh, the audiophiles take no interest in metal tubes, so metal 6L6's will remain available for liquid-cooled "abuse"...

Date: Tue, 9 Dec 1997 12:22:46 -0800 (PST)
From: "Robert P. Okas" <vintage@best.com>
To: John Shriver <jas@shiva.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Anyonr tried 6146 Pentodes for audio?
Message-ID: <Pine.BSF.3.96.971209121605.3526A-100000@shell114.ba.best.com>

On Tue, 9 Dec 1997, John Shriver wrote:

> Also, it is not used in any guitar amps to my knowledge. They are the
> main drain on the supply of 6CA7, 6L6, 7591, 6550, and other
> heater-cathode power-pentodes. On the other hand, they (guitar amps)
> are the only market LARGE enough to sustain the remaining tube
> vendors.

Not quite so. The Ampeg SVT series of guitar and bass amplifiers use qty 6 of these puppies for a deafening 350 Watts out. However, it's probably a safe bet to say there's more ham gear that uses 6146's than

ampeg amps...

Bob - W3CD

Date: Tue, 9 Dec 1997 15:51:39 -0500
From: "Ed Santavicca" <santavic@ct.picker.com>
To: boatanchors@theporch.com
Subject: (Fwd) Re: Anyonr tried 6146 Pentodes for audio?
Message-ID: <F9998C4533@ct1.ct.picker.com>

----- Forwarded Message Follows -----
From: Self <CT1/SANTAVIC>
To: jas@shiva.com
Subject: Re: Anyonr tried 6146 Pentodes for audio?
Date: Tue, 9 Dec 1997 15:49:42 -0500

On 9 Dec 97 at 15:05, John Shriver wrote:

> The good news is that the 6146A doesn't have a filamentary cathode, so
> it is not "pure" by the current Japan-sourced theories.
>
> Also, it is not used in any guitar amps to my knowledge. They are the
> main drain on the supply of 6CA7, 6L6, 7591, 6550, and other
> heater-cathode power-pentodes. On the other hand, they (guitar amps)
> are the only market LARGE enough to sustain the remaining tube
> vendors. Tube audio for the home, and boatanchor radios, are not a
> large enough market to sustain tube manufacturing. (Well, there are
> exceptions, like the 300B, but with prices running from \$100 to \$2000
> for current variants thereof, that shows you how uneconomic a market
> that really is. Also, look at the prices on the Svetlana audio
> variants of the 572, all over \$100.)
>
> All the ham gear that uses things like 6CA7/EL34, 6550, etc., is
> probably (thankfully) perfectly happy with the quite reasonably good
> power tubes Svetlana is making.
>
> Oh, the audiophiles take no interest in metal tubes, so metal 6L6's
> will remain available for liquid-cooled "abuse"...

>
The original Ampeg SVT bass amp made in the 60's
had 6146 outputs from the factory, 6 of them!!!
This amp would put out a comfortable 250 watts rms.
They later switched to 6550's. These babys would ROCK!

Not too many 6146 units left in service today.

Ed AA8TV

Ed Santavicca

73 de
AA8TV
santavic@ct.picker.com

Date: Tue, 09 Dec 1997 16:02:04 -0500
From: "Bruce J. Howes" <bhowes@buffnet.net>
To: BoatAnchors Mailing List <boatanchors@theporch.com>
Subject: Collins KWS-1 Transmitters for trade for Collins "S" line station
Message-ID: <348DB1CC.D8393675@buffnet.net>

This is a multi-part message in MIME format.
-----BD8FC304612B8550B2D50EC8
Content-Type: text/plain; charset=us-ascii
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello,

I have two Collins KWS-1 transmitters, one is in CCA Very Good, and the 2nd is a CCA Fair, but could be cleaned up into a CCA Good. Package includes Hi-Res videos, manuals & copies, antenna relays and many extra parts (tubes, fuses, etc.). I also have a CCA Very Good 75A-4, late serial number with AM, CW and Std 3.1 filters, and a Collins 32V2 that might be part of the deal.

I would like to trade, in whole or in part for a very clean, later "S" line station with a Collins 30S-1. Your units must be very clean, 100% functional with app. paperwork.

I live in Western New York, near Buffalo.

I can be reached via email at kg2ic@amsat.org or phone via 716/622-0678.

Thank you.

--
73,

```
+-----o00--(_)--00o-----+
: Bruce J. Howes KG2IC      email:kg2ic@amsat.org      :
: East Amherst, NY 14051    web:http://www.buffnet.net/~bhowes :
: AMSAT-NA Area Coordinator fax:(716) 689-2880         :
: ARMY MARS AAR2AJ          cis: 75340,3165            :
+-----o000---0ooo.-----+
```

-----BD8FC304612B8550B2D50EC8

Content-Type: text/x-vcard; charset=us-ascii; name="vcard.vcf"

Content-Transfer-Encoding: 7bit

Content-Description: Card for Bruce Howes KG2IC

Content-Disposition: attachment; filename="vcard.vcf"

```
begin:          vcard
fn:             Bruce Howes KG2IC
n:             Howes KG2IC;Bruce
org:           European Performance Group
adr:           ;;East Amherst;NY;14051;USA
email;internet: bhowes@buffnet.net
title:         President
tel;fax:       (716) 689-2880
note:         Interests: Ham radio (esp. BoatAnchors), Electronics, BMW
Motorcycles, History, SAAB and Volvo automobiles
x-mozilla-cpt: ;0
x-mozilla-html: TRUE
end:           vcard
```

-----BD8FC304612B8550B2D50EC8--

Date: 09 Dec 1997 15:11:56 -0600

From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>

To: boatanchors@sco.theporch.com

Subject: Re: (Fwd) Re: Anyonr tried 6146 Pentodes for audio?

Message-ID: <1997Dec09.151159-0600@spike.vuse.vanderbilt.edu>

In <F9998C4533@ct1.ct.picker.com>, Ed Santavicca wrote:

...

>>

>The original Ampeg SVT bass amp made in the 60's

>had 6146 outputs from the factory, 6 of them!!!

>This amp would put out a comfortable 250 watts rms.
>They later switched to 6550's. These babys would ROCK!

>

>Not too many 6146 units left in service today.

>

When a callow (but dangerous) youth I conspired with a colleague to build the ultimate audio amp. A power transformer out of a Zenith color TV set was combined with four 6146's in pp parallel to drive an Acrosound 120w output transformer. Worked reasonably well, which inspired an upgrade to six 6HF5's, pp parallel. Blew out the power transformer, I don't know why..... But until then, loudest on the block.

Obligatory BA content: 6146, 6HF5.....

73 A. B. Bonds

Date: Tue, 9 Dec 1997 13:15:33 -0800
From: "Arden Allen" <aallen@sirius.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Igor
Message-ID: <199712092115.NAA21157@mail1.sirius.com>

Gentle 'Anchorites;

Vintage test equipment for me is on an equal par with old radios when it comes time to heat up the iron. My favorite among favorites is definitely a boatanchor. It sits on top of my work bench, well above all the other scopes, meters and generators. It looks sternly down as if to keep us all aware of who's in charge here. In fact it's so impressive I dubbed it "Igor" when I first acquired it in '72 at C&H Surplus in Pasadena, Ca. It sat way high up there too, out of the way and lonely in a back alley of the warehouse. But when I saw it I was intrigued with this monster and ended up paying \$100 and needing help to get into my trunk. Igor is a General Rado Model 805C Standard Signal Generator, serial no. 1463. It weighs somewhere just under 100 lbs, has two large fan shaped meters, a large round external frequency dial and large Range and Fast Tuning knobs, the size of their 10A variac knobs. The front panel is about 3/16 thick aluminum finished with GR's classic crocadilia in black. The all welded seam case is black wrinkle. Inside the tuning mechanics looks like some millworks from the turn of the century. There is virtually no backlash when tuning my big friend, it goes from 16 Kc to 50 Mc. in six ranges. Igor has only two tubes in the RF section, both 1614's. Modulation is by a 6V6GA. The power supply is regulated by parallel 2A3's (the audio boys will never get their hands on them either). Igor can deliver up to 2V

output and modulates decently to 100%. Igor's greatest weakness is his RF step attenuator. It is not well shielded and becomes very leaky at a few megs and above 16 Mc. the calibrated output level is useless because of the inductively wire wound resistors in the attenuator. I use this big ol' guy when working on BA's just because. I remain ever faithfull to Igor, he is my BA God Father. When I first got the 805C I called GR and they sent me their last remaining in stock manual free. By the way does anyone know when Igor might have been built?

Arden Allen KB6NAX Vallejo, CA aallen@sirius.com

Date: Tue, 9 Dec 1997 16:06:44 -0500
From: "Thomas A. Adams" <103360.2133@compuserve.com>
To: "INTERNET:boatanchors@theporch.com" <boatanchors@theporch.com>
Subject: Moody; A CIA front?
Message-ID: <199712091607_MC2-2B5A-CB37@compuserve.com>

Hmmmm... Interesting idea that I'd never considered.

As I think of it tho, with all those antennas up on almost a city block of roof, I can't think of one time I ever worked 'em on 40 or 20 metres... or even heard them on the air, for that matter. Sorta makes you wonder what they were using all those skyhooks for.

One that especially impressed me was a homebrew, quarter wave spaced 3 element Yagi for what looked like 40 metres, planted atop about 50 feet of guyed rooftop tower! Now, THAT was what I called an ANTENNA; it reminded me of a low flying B-17!

The rumor mill among hams around town at the time said a lot of thier folks went to HCJB in Quito as technicians... somehting that HCJB vigorously DENIED, I might add, when HCJB had a representative hitting churches in Chicago with a slide show, looking for contributions.

In retrospect, methinks they protested a bit TOO vigorously, but hindsight is always 20/20 after 30 years. Did the folks at Quito know something we didn't, and wanted no part of it? We'll never know...

73's,

Tom, W9LBB

Date: Tue, 9 Dec 1997 13:26:07 -0800 (PST)
From: Ken Gordon <keng@uidaho.edu>
To: boatanchors@sco.theporch.com
Subject: Crystals...
Message-ID: <Pine.BSF.3.95.971209131419.10927C-100000@piobaire.mines.uidaho.edu>

I have a few other "special purpose" (?) crystals which will go to the first guy who asks for them: After we talk, you send me a SASP.

4 ea, 38.75000 mc, in CR-65 (HC-6 with wide pins) holders

2 ea, metal cased crystals, look like an HC-6 on steroids, about 2 inches tall, one labled 4520 KC, 18S-A, Transmitter, AF 862 DS0, the other labled 2687 KC, 18S-A, Receiver, AF 862 DS0

6 ea, all in what looks like a short HC-6 holder, all labled MAR 334.6 on top, and 40163, 6755.56 on the side.

50 ea, labled 15.000 MHz, in CB sized holders with wire leads. Most of these are still in the shipping bags.

I'm keeping the 4 ea 100.0000 kc crystals in tall HC-6 type holders until I find out if they work.

Got these out of the EE Dept garbage dump.

Ken W7EKB

"Electronic Dumpster Diving - Our Speciality"

Date: Tue, 9 Dec 1997 17:01:54 -0500 (EST)
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
To: boatanchors@theporch.com
Subject: TYPE 30 T00B
Message-ID: <9712091701.aa08788@pcusa01.ecunet.org>

Many thanks to *all* who responded to me on the type 30 tube question!

-John Sehring (Tue, Dec 9, 1997 10:23 am MT @Baker, Montana) UCC WB2EQG

Date: Tue, 9 Dec 1997 17:01:57 -0500 (EST)

From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
To: boatanchors@theporch.com
Subject: SX-101A STUFF
Message-ID: <9712091701.aa08831@pcusa01.ecunet.org>

First off, I have only schematics for the SX-101 Mark I (not the IIIA) and the SX-101A 'cause those are the I've had. I'm assuming the only major change between Mk I & IIIA is the deletion of 160m coverage. (Please correct me if wrong.)

> First, the AVC. It works fine but, for my taste, it should have a
> longer delay (with the same short attack time). Has anyone made this
> change?

Easy enuf to make a partial fix. The SX-101A just puts .22 cap in series with 47K resistor from the AGC line to ground when in the slow AGC mode.

However, this will lengthen the attack time too & still leave you with a ct (in the Mk I anyway; pin 9 of V7 is grounded in the Mk I ct. for ID'ing purposes) that doesn't have fast enuf attack to begin with.

It's a basic circuit problem. The -101's AGC rectifier takes its voltage from the high impedance primary (higher Z even than the plate ct of the last IF amp) of the last IF xfmr pair (T5 & T6); it charges up the AGC time constant cap through this winding and a 27 pF cap (about 120K impedance) and a 1 meg resistor. The ct also takes AGC not from a point of maximum selectivity. This can cause a reduction in apparent (dynamic) selectivity by strong off frequency sigs.

This ct's impedance limits the speed of the attack--it's a common problem to almost *all* ordinary (for AM use) AGC detector cts.

The -101A solves some of this with a better AGC ct. The IF voltage is taken from a point of maximum selectivity, on the secondary of the IF xfmr pair. It is also taken from a much lower impedance tap & doesn't have the impedance of the 27 pF cap anymore. It also charges the time constant cap via only 220K. So its attack time is quite a bit faster (but still not optimal).

The good news is that it easy to rewire from the old -101 ct. to the new -101A ct. Only a few wires & components have to be moved around.

> Second, the S meter. It was up off the peg with no antenna on 40m. A
> delicate twist of the S meter adjust pot on the rear panel cured the
> problem but now I see that the S meter zero setting varies with the
> position of the Selectivity control. Is that to be expected?

Extra resistance is switched into the cathode ct of the last IF amp in ju=st
the 2 kHz position. This can cause the s-meter to rise a bit from zero
(with no signal, dummy antenna), but usually not much. On my SX-100 (whi=ch
has the -101A improvements) it is much less than one S unit. It is not
significant unless the 470 ohm resistor (R39) has drifted up in
value--check it.

> Are there any particularly good articles on the '101 I should try to
> scare up?

QST ran an art a few months ago on putting a product detector a l=85
-101A into a -101 but left out the AGC stuff I think. I've done that
kind of mod to my gen'l coverage -100 (whose cts are very, very similar t=to
-101).

But if you want a better SSB/CW rx than the -101, why not just buy a -101=A
in the first place? It has an improved HF oscillator, filament always on=
,
& HF osc section always-on heater element, product detector, improved AGC
rectifier. Also puts AGC on the 1st mixer for flatter AGC characteristic.

The -101 is a better AM receiver & the earlier ones have 160 m. Also has=a
very useful hi, lo & hi/lo cut tone control, doesn't distort the AM
detector's sig by sending it thru the product detector acting as an af am=p
a l=85 -101A--I wish they hadn't done that!

I'd do the -101A AGC rectifier mod though. The slow AGC decay mod is
useful on SSB but not on AM I think; and where do you put an extra switch
for it? One possibility is a push-pull switch type of volume control to
switch in slow decay cap. Or a DPDT center off toggle in place of the
existing AGC on/off toggle switch. That'd give you AGC off/fast/slow.

-John Sehring (Tue, Dec 9, 1997 10:46 am MT @Baker, Montana) UCC WB2EQG

Date: Tue, 9 Dec 1997 17:01:58 -0500 (EST)
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
To: boatanchors@theporch.com
Subject: ANOTHER SIMPLE TX
Message-ID: <9712091701.aa08857@pcusa01.ecunet.org>

To: boatanchors@theporch.com

The simplest tx I've ever seen was in 12/46 CQ.

Uses a 117L7GT, no power xfmr (be careful or youch!), works on 80 m only, 5 watts input. Total parts count about 10.

-John Sehring (Tue, Dec 9, 1997 11:52 am MT @Baker, Montana) UCC WB2EQG

Date: Tue, 9 Dec 1997 17:01:57 -0500 (EST)
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
To: boatanchors@theporch.com
Subject: RAO RECEIVER QUESTION
Message-ID: <9712091701.aa08848@pcusa01.ecunet.org>

To: boatanchors@theporch.com

I like to use an incandescent lamp (40 - 70 W or so) in series with variac & radio. That give you some current limiting if something should go wrong & a visual indicator of what's happening.

-John Sehring (Tue, Dec 9, 1997 11:51 am MT @Baker, Montana) UCC WB2EQG

Date: Tue, 9 Dec 1997 16:06:47 -0500
From: "Thomas A. Adams" <103360.2133@compuserve.com>
To: "INTERNET:boatanchors@theporch.com" <boatanchors@theporch.com>
Subject: A real oddball for tube collectors...
Message-ID: <199712091607_MC2-2B5A-CB38@compuserve.com>

Digging around in the garage (trying to get the snowblower running), I found something for the tube collector types out there.

I have a General Electric GL-2H21 "Phasitron" tube, for swap only (looking for an Image Orthicon camera tube). The 2H21 comes in a somewhat beat up original box.

For those not familiar with this critter; the Phasitron is a first generation FM modulator tube; it has no other use, that I know of. As I

understand it, the critter uses beam deflection to operate. The tube's electrical condition is unknown; I have a LOT of junk, but a 1946 FM broadcast exciter isn't among it, so I can't test it.

If anyone's interested, contact me directly, not via the list.

73's,

Tom, W9LBB

103360.2133@compuserve.com

Date: Tue, 9 Dec 1997 22:15:40 +0000
From: Sandy W5TVW <ebjr@worldnet.att.net>
To: boatanchors@theporch.com
Subject: "Pencil" tubes??
Message-ID: <19971209221538.AAA10232@LOCALNAME>

Someone wrote:

>
> Season's Greetings, fellow thermionic emission enthusiasts,
>
> Last Tuesday nite at the local ham radio club meeting I was given some
> "pencil" tubes and challenged to "build something" with them. Problem is,
> I have no specs or pinouts for these things. Can anybody help? All were
> made by Raytheon, and this is what I've got:
>
> JRP5672 (Glass envelope)

The 5672 is NOT usually referred to as a "pencil" tube, it is one of the "inline" subminiature series. It is a low-power RF pentode. Might be good for about the same service as the miniature pentodes like the 1U4 and 1T4.

Motorola used these in their early portable "Walky-Talky" radios. Along with 1AD4, 5678, and other "inline" subminiatures. The "inline" submin tubes had from 4 to 8 pins all in-line and a "flat" glass envelope (like they had been semi-smashed while the glass was still soft). The circular 8 pin subminiatures had 8 pins and a round envelope. There were some diodes with very thin round glass envelopes about 3/16" in diameter!

A true "pencil" tube is one of the small series of planar UHF triodes

that were used a lot by RCA in communications radios, mostly military gear. It was sort of an up-to-date, newer, smaller version of the "lighthouse" tubes produced by G.E. Last radio I had anything to do with that used "pencil" tubes was the RCA military UHF transceiver AN/ARC-34. They also extensively used 8 pin circular based subminiatures as well. Types like the 6021, 6111, 6112, 5718, 5719, 5840, 5899 and others.

E. V. Sandy Blaize, W5TVW

"Boat Anchors collected, restored, repaired, traded and used!"

417 Ridgewood Drive

Metairie, LA., 70001

860 Hartley 'ECO' under construction**

*** Looking for a TRC-10 transceiver *****

*** Looking for an RAL receiver *****

Date: Tue, 9 Dec 1997 17:32:10 -0500

From: "Doug Obenchain" <dobencha@iquest.net>

To: <boatanchors@theporch.com>

Subject: Tools

Message-ID: <002d01bd04f2\$4b938e00\$6ae45fcc@dobencha.iquest.net>

I know that this was mentioned, but I just received a new "Contact East" catalog and do not seem to find Knurl nut wrenches in there. Does anyone know who makes these or another source?

Thanks

73's and Happy Holidays

Doug Obenchain

Kokomo, Indiana, USA

Date: Tue, 9 Dec 1997 19:34:59 -0500

From: "William C. Robbins" <billrobb@net-link.net>

To: boatanchors@theporch.com

Subject: FS: Hammarlund Manuals

Message-ID: <199712100034.TAA13138@serv01.net-link.net>

All prices are SHIPPED:

Super Pro Series 200

Super Pro "instructions" \$30 for the pair

HX-500 20

HX-50 20

HX-50A Copy 5

HQ-215	17
HQ-110	15
HC-10 Copy	5

Happy Holidays

Bill

Date: Tue, 9 Dec 1997 19:37:46 -0500
From: "William C. Robbins" <billrobb@net-link.net>
To: boatanchors@theporch.com
Subject: FS: Collins manuals
Message-ID: <199712100037.TAA13655@serv01.net-link.net>

All prices are shipped:

75A-2	\$25	about a 7 on the 10 scale
312B-4	17	

Happy Holidays

Bill

Heathkit Collector
WA8CDU formally WN8CDU

Date: Tue, 9 Dec 1997 19:39:19 -0500
From: "William C. Robbins" <billrobb@net-link.net>
To: boatanchors@theporch.com
Subject: FS: Drake Manuals
Message-ID: <199712100039.TAA13858@serv01.net-link.net>

All prices are shipped:

2-B	\$17
R-4	20

Bill

Date: Wed, 10 Dec 1997 01:47:53 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: jeffreyh <jeffreyh@hawaii.edu>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: RAO Receiver Questions
Message-ID: <199712100147.BAA14308@punt1.hw.ac.uk>

On 1997-12-09 jeffreyh@hawaii.edu said:

je>Arden Allen wrote:
je>>You can CAREFULLY feel the lytics for warmth.
je>Yikes! Do you really stick your fingers that close to the B+
je>while the set is powered up?? =:o <---hair standing on end)
je>Jeff KH2PZ

I know someone who used to test bulb holders (BC, 230 V rms around here)
by licking his thumb and pushing it in.

I'll leave it to someone with More Qualifications to discuss the wisdom
of this.

UN de Bill + 31 letters dating back to 1957, counting callsign and
homebbs but not punkertiooayshun.

Bill, aka maestro@cix.co.uk. Tel/fax/msg [44 or 0] 131 336 4502
GM8APX, qthr=No 6, EH4 6JY==Cave felem==No Rectangulars=Ikke Hawkering

Quem deus vult perdere prius dementat

Net-Tamer V 1.10 - Registered

Date: Wed, 10 Dec 1997 01:48:03 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: LairdTomN <LairdTomN@JDCORP.deere.com>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: Half wave doubler
Message-ID: <199712100147.BAA14314@punt1.hw.ac.uk>

The last two microwave ovens I dropped contained an even simpler (and
nastier?) voltage doubler circuit:

The mains transformer secondary is 1.25 kV, 1 A continuous. (Thinks: Why
bother turning it into RF?)

This winding is in series with an EHT half-wave diode, and a very large C.

The magnetron is connected directly across the diode, where you can see it experiences 2 x Vac(pk)

Date: Wed, 10 Dec 1997 01:48:08 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: post <post@ouvaxa.cats.ohiou.edu>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: SX-28A Audio Output transformer needed
Message-ID: <199712100148.BAA14317@punt1.hw.ac.uk>

Meanwhile I'm still seeking 30 or more watt push-pull (class A) audio output TF, SAY 10 kohm anode-to-anode (dynamic load impedance, NOT Vwkg/Iwkg) to 2, 4, 8, 12, or 16 ohm speech coil.

Swap for mains transformer from microwave oven?

Leaves only the cost of shipping maybe 5 kg of iron across the Pond (or not, if you live in the UK...)

Thanks and UN de Bill, gm8apx
Unsolicited commercial email incurs a downloading and archiving fee.

Bill, aka maestro@cix.co.uk. Tel/fax/msg [44 or 0] 131 336 4502
GM8APX, qthr=No 6, EH4 6JY==Cave felem==No Rectangulars=Ikke Hawkering

Laborant montes, parturiunt haec mus

Net-Tamer V 1.10 - Registered

Date: Wed, 10 Dec 1997 01:48:13 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: nick <nick@cs.unc.edu>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: Tools
Message-ID: <199712100148.BAA14321@punt1.hw.ac.uk>

On 1997-12-09 nick@cs.unc.edu said:

ni>A friend used to have a sign on the wall above his workbench:
ni>"It is a damn poor job that doesn't require at least one new tool."
ni>73,
ni>Nick KD4CPL

ni>..

Didn't zoologists brand the chimpanzee as "intelligent" after it was observed MAKING some kind of tool to help in its Domestic Duties? Nothing about BUYING.....

Bill, aka maestro@cix.co.uk. Tel/fax/msg [44 or 0] 131 336 4502
GM8APX, qthr=No 6, EH4 6JY==Cave felem==No Rectangulars=Ikke Hawkering

Laudator temporis acti: 'Me puero...'

Net-Tamer V 1.10 - Registered

Date: Wed, 10 Dec 1997 01:48:29 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: rau <rau@wco.com>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: books re "regens" etc
Message-ID: <199712100148.BAA14333@punt1.hw.ac.uk>

I don't like to let pre-transistor wireless books "escape"; I usually buy any I find in "junk" bookshops, consequently I have a short list of volumes I'd happily swap for parts or other books.

Flavour of the Month: "The CRO in Radio Research" - His Majesty's Stationery Office, 1933 (repr Nov 35) by someone called R A Watson Watt, Superintendent of the Radio Research Station, Slough. (For it is he!)

I can always keep an eye open/start tongues wagging for any specific book (or part) but I'm not a dealer myself.

UN de Bill, gm8apx

Bill, aka maestro@cix.co.uk. Tel/fax/msg [44 or 0] 131 336 4502
GM8APX, qthr=No 6, EH4 6JY==Cave felem==No Rectangulars=Ikke Hawkering

Si domi sum, foris est animus; sin foris sum, animus est domi

Net-Tamer V 1.10 - Registered

Date: Wed, 10 Dec 1997 01:48:24 +2400
From: Bill Jarvis <B.H.Jarvis@hw.ac.uk>
To: "Brian.Harris" <Brian.Harris@sv.sc.philips.com>
Cc: boatanchors <boatanchors@theporch.com>
Subject: Re: Heath Freebie
Message-ID: <199712100148.BAA14329@punt1.hw.ac.uk>

On 1997-12-09 Brian.Harris@sv.sc.philips.com said:

Br>Best convincing story gets this freebie:
Br>a yellow insert, probably came with a kit, announcing -
Br>A NEW GOVERNMENT RULING...
Br>dated July 5, 1956, reads in part as follows:
Br>(blah, blah, blah, info about a 10% excise tax to be added to kits)
Br>Include address with your BS.
Br>73, Brian Harris WA5UEK

I was 17 then, 2nd year 6th form, boarding school near Buckingham, UK. I had 30 shillings (1.50 stg) for each 3 month term. Saved to order a Heathkit RC bridge, if I'm not mistaken - I think it used a Magic Eye (I collect them now, alongside Slide Rules) as balance point indicator.

I recall vaguely no income tax on KITS in the UK. Heathkits were very prestigious at the time because the end product looked as though it had been made professionally, and the instructions were meticulous - a box to tick every time you blinked.

Boring ending to story: I got the kit and it worked fine; had to sell it to buy 2nd hand RAF uniform when called up, to avoid being too obviously conscript.

Still favour Heathkit; last project was their ultrasonic movement sensor (1972ish?) which turns on garage lights if squirrels try to steal dogfood.

Contemporary from same school set up a heavy water concentrating plant using hundreds of jam-jars and the skool DC mains. He overtook me in the RAF and is now Top Brass. I think. Our Physics teacher wrote the article re making your own transistors (1953).

UN de Bill, gm8apx

Bill, aka maestro@cix.co.uk. Tel/fax/msg [44 or 0] 131 336 4502
GM8APX, qthr=No 6, EH4 6JY==Cave felem==No Rectangulars=Ikke Hawkering

Sic vos non vobis mellificatis, apes

Net-Tamer V 1.10 - Registered

End of BOATANCHORS Digest 1825
